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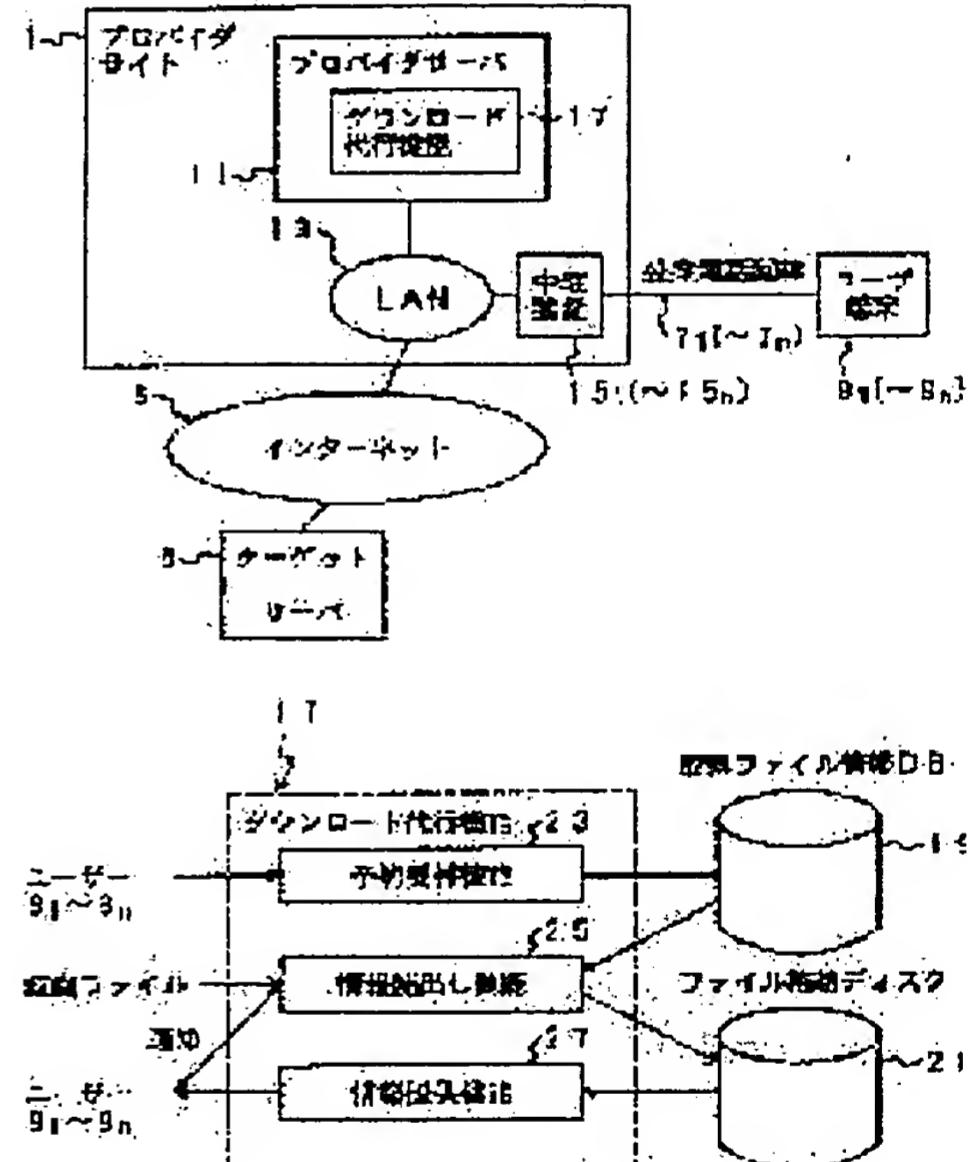
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(54) INFORMATION PROVIDING SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce the communication cost by enabling a user to surely obtain desired information in a short communication time.

SOLUTION: A download vicarious execution function 17 is provided with a reservation accepting function 23, an information read function 25, and an information providing function 27. The reservation accepting function 23 accepts file names which are given from user terminals 91 to 9n and are required to be acquired, a term of information acquisition, a method to inform each user that a pertinent file has been acquired, and designation information of tools for file downloading, etc., and stores them in an acquired file information data base 19. The information read function 25 preserves files, which are acquired from a target server through the internet, in a file storage disk 21 and informs the user side whether it has succeeded in acquisition of the pertinent file or not. The information providing function 27 reads out the pertinent file from the disk 21 to provide it to the corresponding user terminal when the information read function 25 has succeeded in downloading of the file and user terminals 91 to 9n access the server 11 in an informed file preservation term by the preliminarily designated download method.



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CLAIMS

[Claim(s)]

[Claim 1] The information offer method characterized by having the means which a user receives the demand of the information acquisition from a user as reservation in the environment which acquires the information on desired from the site for information storage on a network, acquires the corresponding information from the aforementioned site through a network based on this reservation, and supplies to the aforementioned user.

[Claim 2] The information offer method with which the aforementioned supply means is characterized by being the provider server prepared in the site of the Internet provider which provides a user with an Internet access service in an information offer method according to claim 1.

[Claim 3] The information offer method characterized by the aforementioned supply means acquiring the information on a user request from the aforementioned site for information storage in the comparatively few time zone of the traffic in the Internet in an information offer method according to claim 1.

[Claim 4] The information offer method according to claim 2 or 3 characterized by providing the following 1st means by which the aforementioned provider server receives the reservation from a user about the transfer to the user of the information acquired from the aforementioned site. The 2nd means which acquires the corresponding information from the aforementioned site through the Internet based on the aforementioned reservation, and a predetermined period storage means is made to memorize, and 3rd means to transmit the information by which storage is carried out [aforementioned] to the aforementioned user according to the demand from the aforementioned user

[Claim 5] The information offer method with which the 1st means of the above is characterized by receiving the reservation from the aforementioned user in an information offer method according to claim 4 about the acquisition term of the information name and the information that acquisition is required, the notice method to the user of the propriety of information acquisition, and the transfer method to the informational user who acquired.

[Claim 6] The information offer method characterized by notifying the aforementioned user of the preservation term of the purport that information acquisition was successful, and the acquired information in an information offer method according to claim 4 when the 2nd means of the above acquires the aforementioned information from the aforementioned site.

[Claim 7] The information offer method with which the 2nd means of the above is characterized by stopping information acquisition operation in an information offer method according to claim 4 when the number of times of failure of information acquisition operation from the aforementioned site reaches the number of times of predetermined continuously.

[Claim 8] The information offer method with which the 3rd means of the above is characterized by providing the aforementioned user with the information by which storage is carried out [aforementioned] in an information offer method according to claim 4 based on the transfer method by which reservation was carried out [aforementioned].

[Claim 9] The information offer method which will be characterized by eliminating the aforementioned information from the aforementioned storage means if the retention period of the information which the 3rd means of the above is making the aforementioned storage means memorize reaches in an information offer method according to claim 4 in a predetermined period.

[Claim 10] The information offer method characterized by having further 4th means to judge whether the amount of information acquired from the aforementioned site is over the predetermined size in the information offer method according to claim 4.

[Claim 11] The information offer method characterized by writing the aforementioned information in the record medium sent by the user when it judges with the amount of information which the 4th means of the above acquired from the aforementioned site being over a predetermined size in an information offer method according to claim 10.

[Claim 12] The information offer method characterized by for the aforementioned user choosing about the acquisition term of the information name and the information that a user demands acquisition at the time of the aforementioned reservation, the notice method to the user of the propriety of information acquisition, and the transfer method to the informational user who acquired, and notifying a selection result to the aforementioned supply means in an information offer method according to claim 1.

[Claim 13] The information offer method with which the site for the aforementioned information storage is characterized by being a database server in an information offer method according to claim 1.

[Claim 14] The record medium which recorded the program applied to the information offer method characterized by to have the means which a user receives the demand of the information acquisition from a user as reservation in the environment which acquires the information on desired from the site for information storage on a network, acquires the corresponding information from the aforementioned site through a network based on this reservation, and supplies to the aforementioned user possible [computer read].

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DETAILED DESCRIPTION

[Detailed Description of the Invention]**[0001]**

[The technical field to which invention belongs] this invention relates to the information offer method applied in the environment where a user acquires the information on desired from the site for information storage through a network.

[0002]

[Description of the Prior Art] Conventionally, a user terminal is connected to the Internet through a dial up line, and the technique called a simultaneous perusal type and the technique called a prior accumulation type are known as a method of downloading information. In the former, after connecting a user terminal to the Internet, as soon as it communicates between the sites which specify the whereabouts of the information on desired to be a user terminal, and accumulate the information, perusal of the information is also performed. In the latter, after specifying the whereabouts of the information on desired to be a user terminal, a user terminal is connected to the Internet, and the above-mentioned connection is made immediately after accumulating the information transmitted from the above-mentioned site to a user terminal.

[0003]

[Problem(s) to be Solved by the Invention] By the way, since the toll of dial-up service, i.e., a dial-up line, is generally proportional to communication time, when it has need like [in the case of accessing to the Internet by the simultaneous perusal type technique mentioned above, for example] of using dial-up service for a long time, the problem that a user is collected in the toll of a large sum arises.

[0004] Moreover, since two or more networks are connected and constituted, the Internet may take a long time to communicate between a user terminal and a site, when a path until it arrives at the site which sees from a user terminal and accumulates the information on desired is long or the above-mentioned site is very crowded. If dial-up service was used as connecting means to the Internet when such, a user has the toll of a large sum collected too.

[0005] Moreover, when a part of path until the above-mentioned site is out of condition or arrives at the above-mentioned site from a user terminal is out of condition, if simultaneous perusal type technique is used, ** which uses the prior accumulation type technique in which communication time is shorter than a simultaneous perusal type cannot be asked, and a user terminal cannot download the information on desired from the above-mentioned site.

[0006] Furthermore, while communicating by using a low speed like dial-up service, and the circuit of low quality, continuing for a long time, once it is easy to generate a communication error and a communication error occurs, there is a problem that informational download will go wrong by it. And when severe, the problem of a communication error occurring repeatedly and it becoming impossible to download information for the reason might arise.

[0007] Therefore, the purpose of this invention is shown in a user being able to receive the

information on desired certainly in short communication time, and aiming at curtailment of communication cost.

[0008] Another purpose of this invention is by providing for a user, without using a low-speed circuit about the information exceeding a predetermined size to be able to avoid the bad influence by communication error, and enable it to also aim at curtailment of communication cost.

[0009]

[Means for Solving the Problem] A user is applied to the environment which acquires the information on desired from the site for information storage through a network, and receives the demand of the information acquisition from a user as reservation, and the information offer method according to the 1st side of this invention is equipped with a means to acquire the corresponding information from the above-mentioned site through a network based on this reservation, and to supply a user.

[0010] According to the above-mentioned composition, a supply means acquires the information which corresponds instead of a user through a network based on the content which the user reserved from the site for information storage. And this acquired information is suitably supplied to a user. Therefore, a user does not access the site for information storage soon through a network. Therefore, he is able for a user to be able to receive the information on desired certainly in short communication time, and to aim at curtailment of communication cost.

[0011] With the suitable operation gestalt concerning the 1st side of this invention, the provider server prepared in the site of the Internet provider which provides a user with an Internet access service as a supply means is used. This supply means, i.e., a provider server, acquires the information for which a user asks from the site for information storage in the comparatively few time zone of the traffic in the Internet. A provider server is equipped with 1st means receive the reservation from a user about the transfer to the user of the information acquired from the site for information storage, the 2nd means acquires the corresponding information from the above-mentioned site through the Internet based on the reservation which the user performed, and a predetermined period storage means makes a means memorize, and 3rd means transmit the information memorized to a user according to the demand from a user.

[0012] Here, if the 1st – the 3rd means are explained in full detail, the 1st means will receive the reservation from a user about the acquisition term of the information name and the information that acquisition is required, the notice method to the user of the propriety of information acquisition, and the transfer method to the informational user who acquired. Next, the 2nd means stops information acquisition operation, when it not only notifies a user of the preservation term of the purport that information acquisition was successful, and the acquired information, but [when information is acquired from the above-mentioned site,] the number of times of failure of information acquisition operation from the above-mentioned site reaches the number of times of predetermined continuously. Furthermore, the 3rd means will eliminate information from a storage means, if the retention period of the information which the storage means is made to memorize reaches in a predetermined period while providing a user with the information memorized based on the reserved transfer method.

[0013] In the provider server concerning the operation gestalt mentioned above, it has further 4th means to judge whether the amount of information acquired from the above-mentioned site is over the predetermined size. The 4th means writes the above-mentioned information in the record medium sent by the user, when it judges with the amount of information acquired from the above-mentioned site being over a predetermined size. This record medium is sent to a user with a parcel etc. In addition, a user chooses about the acquisition term of the information name and the information that a user demands acquisition, the notice method to the user of the propriety of information acquisition, and the transfer method to the informational user who acquired at the time of the reservation mentioned above, and notifies a selection result to a supply means at it. Moreover, a database server is used for the site for information storage.

[0014] The program applied to an information offer method equipped with a means the record medium according to the 2nd side of this invention receives the demand of the information acquisition from a user as reservation in the environment where a user acquires the information on desired from the site for information storage through a network, acquires the corresponding information from the above-mentioned site through a network based on this reservation, and supply a user is recorded possible [computer read].

[0015]

[Embodiments of the Invention] Hereafter, a drawing explains the gestalt of operation of this invention in detail.

[0016] Drawing 1 is the block diagram showing 1 operation gestalt of the network system with which the information offer method of this invention is applied.

[0017] The above-mentioned system is equipped with the provider site 1, the target server 5 connected to the provider site 1 through the Internet 3, and the user terminals 91-9n (one set is indicated) connected to the provider site 1 through dial-up lines (dial-up service) 71-7n (one is indicated) as shown in drawing 1. In addition, about the dial-up line and the user terminal, although more than one are prepared in fact, respectively, we decided to indicate one piece at a time, respectively on account of illustration. Moreover, although two or more various servers are connected to the Internet 3 besides the above-mentioned target server 5, we decided to omit a publication on account of illustration also about these.

[0018] The provider site 1 shows the site of an Internet provider (namely, telecommunications service operator who offers a commercial Internet access service). The provider site 1 is equipped with the provider server 11, LAN (local area network)13, and repeating installation 151-15n (one set is indicated on account of illustration).

[0019] The target server 5 is accumulating the information (file) for which a user asks, and is connected to the provider server 11 through the Internet 3 and LAN13. The target server 5 downloads a corresponding file to the provider server 11 through the Internet 3 and LAN13 according to the download demand of the file from the provider server 11. The database server which a user generally accesses as a target server 5 according to a client-server type database access method, for example and which keeps the structured data and object-oriented information is used. The database server itself is the highly efficient machine which usually performs the great portion of data processing.

[0020] It connects with the provider server 11 through dial-up lines 71-7n, repeating installation 151-15n, and LAN13, and user terminals 91-9n choose first the reservation download service of the various services which a server 11 offers. That is, the purport which should download the file of the request stored in the target server 5 to user terminals 91-9n is reserved to a server 11.

[0021] At the time of this reservation, the method (for example, download by the E-mail, download by FTP, download by HTTP) of the download to 91-9n of user terminals etc. is notified to a server 11 from user terminals 91-9n from the term of the file acquisition from the target server 5, and a server 11. Here, FTP is a file transfer protocol (file transfer function), and HTTP is a hypertext transfer protocol. If there is a notice of the purport which acquired the above-mentioned file from the server 11, user terminals 91-9n will receive offer of the above-mentioned file from a server 11 by the same method as the download method notified to the server 11 at the time of the above-mentioned reservation. As user terminals 91-9n, either PC (personal computer) which contains a WWW (World Wide Web) browser (perusal/reference software), for example, and a workstation are used.

[0022] In the file designation method in case user terminals 91-9n reserve file download to a server 11 with this operation gestalt, it is URL (uniform resource locator.) by the WWW browser. That is, there are a method of specifying the place of the homepage connected first, a method of specifying the file name for which a user asks, etc. In addition, in the above-mentioned reservation, when requiring download of the file specified by URL, it is desirable for a user to search the list of files

which require download using a WWW browser, and to acquire by copy & paste at the time of reservation.

[0023] User terminals 91-9n can choose the method of notifying whether the server 11 succeeded from the target server 5 in file acquisition to user terminals 91-9n at the time of the above-mentioned reservation. As the notice method which can choose user terminals 91-9n, the notice method by the E-mail, the notice method by WWW (World Wide Web), distribution by the PUSH type information offer tool, the notice method by the pager (pocket bell), the notice method by the message in a telephone, etc. are mentioned.

[0024] User terminals 91-9n acquire a desired file from a server 11 through LAN13, repeating installation 151-15n, and dial-up lines 71-7n by the predetermined download method within the file preservation term set up in the server 11, and store this in memory.

[0025] In addition, when user terminals 91-9n choose download by the E-mail as the file download method, user terminals 91-9n can acquire a desired file, when an E-mail is received. When user terminals 91-9n choose download by FTP or HTTP, URL described by acquisition check mail will be accessed, or a file will be acquired in menu form by the WWW browser.

[0026] The provider server 11 is equipped with the download vicarious execution function (vicarious execution function) 17 which downloads the user terminals [91-9n] file for which it asks from the target server 5 instead of user terminals 91-9n, Artie who is a tool corresponding to FTP, the various application servers which are the tools corresponding to HTTP.

[0027] When user terminals 91-9n choose the notice method by the E-mail at the time of the above-mentioned reservation, a server 11 describes a file preservation term, URL for file acquisition, etc. in the E-mail sent out to user terminals 91-9n so that 91-9n of user terminals can acquire a desired file certainly. A server 11 will discriminate the user terminal, if a user terminal (any one set (91-9n)) accesses the homepage which a server 11 offers when there is a user terminal (either 91-9n) which chose the notice method by WWW at the time of the above-mentioned reservation. And when the file for which the user terminal asks is in a thing [finishing / acquisition] in a server 11, the user terminal is urged so that the file may be accessed. Moreover, a server 11 provides automatically 91-9n of user terminals with a desired file using PUSH type information offer tools, such as a back web and a marimba, when user terminals 91-9n choose distribution by the PUSH type information offer tool at the time of the above-mentioned reservation. In this case, even if compared with the time of using a PUSH type information offer tool as it is, there is an advantage which can shorten communication time. Furthermore, a server 11 is notified to the pager of user possession, when user terminals 91-9n choose the notice method by the pager (pocket bell) at the time of the above-mentioned reservation, and when user terminals 91-9n choose the notice method by the message by telephone, he telephones it to the telephone number specified by a user, and it is notified with voice. In addition, the server 11 is possible for performing processing corresponding to this, even when that with which the user doubled two or more sets of above-mentioned notice methods is chosen.

[0028] Repeating installation 151-15n amends the signal transmitted through dial-up lines 71-7n from user terminals 91-9n (amplification or plastic surgery), and transmits it to the provider server 11 through LAN13. Repeating installation 151-15n amends the signal transmitted through LAN13 from the provider server 11 again, and transmits it to user terminals 91-9n through dial-up lines 71-7n.

[0029] Drawing 2 is the block diagram showing the internal configuration with which the provider server 11 of drawing 1 is equipped, and the functional composition of the vicarious execution function 17.

[0030] In addition to the vicarious execution function 17, the provider server 11 is equipped with the acquisition file information database (DB) 19 and the file storing disk (disk) 21 as shown in drawing 2.

[0031] Information, such as a term (information acquisition term) which requires acquisition of the

file name (specified by the method of URL or others) as which each user terminals 91-9n require acquisition, and its file by the reservation receptionist function 23 which is one of the functions with which the vicarious execution function 17 is equipped, is stored in DB19. Information, such as specification information on the tool (for example, an E-mail, FTP, HTTP) which downloads the method of notifying each user of the purport which acquired the corresponding file further, and the acquired file, is stored in DB19 by the reservation receptionist function 23. Many above-mentioned information stored in DB19 is faced reading the file which corresponds out of the multiple files which the target server 5 holds, and is referred by information read-out function 25 which is one that the function with which the vicarious execution function 17 is equipped is another.

[0032] In a disk 21, a storage area different, respectively is assigned for every one reservation of the file download demand from each user terminals 91-9n which the reservation receptionist function 23 receives. The file downloaded from the target server 5 by the information read-out function 25 is stored in each storage area. For example, when the download methods specified by each user are FTP and HTTP, the above-mentioned file is saved to the directory corresponding to FTP and HTTP of a disk 21. The file stored in each storage area is read by still more nearly another information offer function 27 which is one of the functions with which the vicarious execution function 17 is equipped, and is transmitted to a corresponding user terminal (either 91-9n). About the file which was not accessed from each user terminals 91-9n within the file preservation term set up by the provider server 11 among each file by which storing is carried out [above-mentioned], and the file which had the request of deletion from each user terminals 91-9n, it is deleted by the information offer function 27.

[0033] In addition, it is considered [that it can respond by performing a suitable accounting (charge according to amount of information stored in disk 21) setup, a setup of the suitable retention period in a disk 21, etc., and] in order to avoid shortage of the storage capacity of a disk 21. For example, though 10,000 users accumulate about 2 megabytes of information to the storage area of a disk 21 by one-person average, the amount of information as the whole is 2 G bytes, and the file storing disk of storage capacity of this amount cannot be called so huge as a file storing disk of the provider server 11 thing. When two or more users completely demand acquisition of the same information (file), saving of a storage area is possible, and deletion of the file is not performed until all users that performed the information acquisition demand in this case complete download of a file.

[0034] On the other hand, the vicarious execution function 17 is equipped with the reservation receptionist function 23, the information read-out function 25, and the information offer function 27 as shown in drawing 2.

[0035] The reservation receptionist function 23 is a function to receive the reservation from each user terminals 91-9n about the each user terminals [of the file which the provider server 11 acquired from the target server 5 / 91-9n] download method etc. Namely, the reservation receptionist function 23 receives information, such as specification information on the tool (for example, an E-mail, FTP, HTTP) which downloads the file name which requires the acquisition transmitted from each user terminals 91-9n, an information acquisition term, the method of notifying each user of the purport which acquired the corresponding file, and the acquired file, and stores it in DB19.

[0036] The information read-out function 25 is a function which downloads the file which corresponds from the target server 5 in consideration of the above-mentioned information acquisition term which two or more user terminals 91-9n specified, respectively based on the file name information which requires the acquisition stored in DB19 by the reservation receptionist function 23 one by one. That is, the information read-out function 25 communicates between the target servers 5. Consequently, when it succeeds in downloading the corresponding file from a server 5, the information read-out function 25 notifies the completion of information acquisition, and the file preservation term in a server 5 to each user terminals 91-9n while storing it in the storage

area of the disk 21 beforehand assigned according to the download method specified by each user, respectively.

[0037] In addition, when the download methods specified by each user are FTP, HTTP, etc., the information read-out function 25 saves the above-mentioned file to the directory according to FTP and HTTP of a disk 21. Moreover, when the download method specified by each user is what is depended on an E-mail, the information read-out function 25 is appended to the E-mail for notifying the completion of information acquisition for the above-mentioned file at each user terminals 91-9n. Furthermore, when downloading the corresponding file from a server 5 goes wrong, the information read-out function 25 stops access to a server 5, when a multiple-times attempt and the number of times of failure of download reach the number of times of a convention continuously in download every several hours. And the purport that download failed in each user terminals 91-9n by the download method specified by each user terminals 91-9n is notified.

[0038] The information offer function 27 is a function to provide the user terminal which reads from a disk 21 and corresponds with the corresponding file, when the server 11 has been accessed by the download method beforehand specified within the file preservation term when the information read-out function 25 succeeded in download of FAIRUN in, and each user terminals 91-9n were notified. That is, when each user terminals 91-9n specify FTP and HTTP as the download method, the information offer function 27 is transmitted to the user terminal (either 91-9n) which appends URL to the corresponding file and corresponds. In addition, about the file which was not accessed from each user terminals 91-9n within the above-mentioned file preservation term, and the file which had the request of deletion from each user terminals 91-9n, it is deleted from a disk 21 by the information offer function 27.

[0039] Drawing 3 is explanatory drawing showing processing operation in the network system of drawing 1.

[0040] In drawing 3, user terminals 91-9n and a server 11 are connected, and reservation of the download about a desired file is performed (Step S41). In this reservation, if file designation which asks for download by URL is performed, the vicarious execution function 17 of a server 11 will require the download to the server 11 of the file by which traffic, such as night, accessed the target server 5 and was specified to be them using the few time zone (Step S42). If the file which corresponds from a server 5 downloads according to this demand, in response, archiving of the vicarious execution function 17 will be carried out to a disk 21 (Step S43). And the purport that download was successful is notified to the user terminal (either 91-9n) which performed download reservation, and when the user terminal has accessed within a predetermined term, the above-mentioned file is downloaded.

[0041] Drawing 4 is explanatory drawing showing the service request screen in the network system of drawing 1, i.e., the screen of a WWW browser.

[0042] As shown in drawing 4, the file designation method (is it URL or file name specification?) downloaded as an item which a user can choose, the methods (an E-mail, WWW, pager, etc.) of notifying a success/failure of download, and the download methods (an E-mail, FTP, HTTP, etc.) of a file are displayed on the screen of a WWW browser.

[0043] As explained above, according to 1 operation gestalt of the network system mentioned above, the server 11 chose the time zone with little [after receiving the file download reservation from user terminals 91-9n] traffic, such as night, at its own discretion, and we acquired the above-mentioned file from the target server 5, and decided to carry out archiving of it. Therefore, if user terminals 91-9n are within a predetermined period, they can access a server 11 at any time, and can download a desired file.

[0044] By the way, the transmission speed between user terminals 91-9n and the target server 5 is inharmonious, and moreover, even if change of transmission speed is difficult to predict, the transmission speed between the Internet provider servers 11 which user terminals 91-9n and user terminals 91-9n have joined is in agreement with abbreviation line speed. Therefore, in download of

the user terminals [91-9n] file from a server 11, trouble hardly arises. Therefore, if a file is downloaded in the mode mentioned above, a user can receive the information (file) needed with cheap positive and telex-rate gold in short communication time.

[0045] Drawing 5 is explanatory drawing showing processing operation in the network system concerning the modification of 1 operation form mentioned above.

[0046] In this modification, in Step S43 of drawing 3 , it downloads from a server 5, and when it confirms whether the size of the file saved on the disk 21 is large by the vicarious execution function 17 and judges that it is large as a result, the above-mentioned file is written in a record medium like a floppy disk (FD) 29. And suppose that the FD29 is mailed to the user who is asking for the above-mentioned file (Step S44).

[0047] When the size of the file for which a user asks is large according to this modification, since it is written in the record medium of FD29 grade and a user is mailed, in order to acquire the file of large size, it became unnecessary to use the circuit of the low quality in a low speed [as / whose user terminals 91-9n are dial-up lines 71-7n], having continued for a long time.

[0048] Therefore, since it not only can reduce the influence of generating of a circuit error, but the communication cost by using the circuit of the low quality in a low speed for a long time was transposed to the postage and the charge of a medium, it also became possible to reduce communication cost.

[0049] in addition, the thing about the 1 operation form of the network system with which, as for the contents mentioned above, the information offer method of this invention is applied to the last, and its modification -- it is -- this invention -- the above-mentioned contents -- limitation -- that -- of course, it is not what means *****

[0050]

[Effect of the Invention] As explained above, according to this invention, a user can receive the information on desired certainly in short communication time, and can aim at curtailment of communication cost.

[0051] Moreover, the bad influence by communication error can be avoided, and it can make it possible to also aim at curtailment of communication cost by providing for a user, without using a low-speed circuit about the information exceeding a predetermined size according to this invention.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] The block diagram showing 1 operation gestalt of the network system with which the information offer method of this invention is applied.

[Drawing 2] The block diagram showing the internal configuration with which the provider server of drawing 1 is equipped, and the functional composition of a download vicarious execution function.

[Drawing 3] Explanatory drawing showing processing operation in the system of drawing 1.

[Drawing 4] Explanatory drawing showing the service request screen in the system of drawing 1.

[Drawing 5] Explanatory drawing showing processing operation in the network system concerning the modification of 1 operation gestalt.

[Description of Notations]

1 Provider Site (Site of Internet Provider)

3 Internet

5 Target Server

7 Dial-up Line (Dial-up Service)

9 User Terminal

11 Provider Server

13 LAN (Local Area Network)

15 Repeating Installation

17 Download Vicarious Execution Function (Vicarious Execution Function)

19 Acquisition File Information Database (Acquisition File Information DB)

21 File Storing Disk

23 Reservation Receptionist Function

25 Information Read-out Function

27 Information Offer Function

29 Floppy Disk (FD)

[Translation done.]